**Stata code for CER cost of Brexit models**

**GDP**

**Import GDP data, then:**

encode country, gen(ncountry)

egen dateid = group(qdate)

egen countryid = group(ncountry)

generate UK = (countryid == 22)

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer, replace) fig

graph save Graph prereftrainingOECDrealgdp2016Fetzer, replace

save basedataset, replace

gsample 50 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer50pc, replace) fig

clear

use basedataset

gsample 20 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer20pc, replace) fig

clear

use basedataset

gsample 30 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer30pc, replace) fig

clear

use basedataset

gsample 40 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer40pc, replace) fig

clear

use basedataset

gsample 60 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer60pc, replace) fig

clear

use basedataset

gsample 70 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer70pc, replace) fig

clear

use basedataset

gsample 80 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer80pc, replace) fig

clear

use basedataset

gsample 90 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth realgdp realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDrealgdp2016Fetzer90pc, replace) fig

use prereftrainingOECDrealgdp2016Fetzer50pc, clear

rename \_Y\_synthetic fifty\_pc

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer20pc

rename \_Y\_synthetic twenty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer30pc

rename \_Y\_synthetic thirty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer40pc

rename \_Y\_synthetic forty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer60pc

rename \_Y\_synthetic sixty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer70pc

rename \_Y\_synthetic seventy\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer80pc

rename \_Y\_synthetic eighty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer90pc

rename \_Y\_synthetic ninety\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDrealgdp2016Fetzer

rename \_Y\_synthetic hundred\_pc

drop \_merge

gen average\_Y\_synthetic = (twenty\_pc + thirty\_pc + forty\_pc + fifty\_pc + sixty\_pc + seventy\_pc + eighty\_pc + ninety\_pc + hundred\_pc)/9

twoway (line \_Y\_treated \_time) (line average\_Y\_synthetic \_time)

gen UKloss = 100-((100 + \_Y\_treated) / (100 + average\_Y\_synthetic) \* 100)

graph save Graph prereftrainingOECDrealgdp016Fetzeraverage, replace

save prereftrainingOECDrealgdp2016Fetzeraverage, replace

**Investment**

**Import investment data, then:**

encode country, gen(ncountry)

egen dateid = group(date)

egen countryid = group(ncountry)

generate UK = (countryid == 22)

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer, replace) fig

graph save Graph prereftrainingOECDinv2016Fetzer, replace

save basedataset, replace

gsample 50 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer50pc, replace) fig

clear

use basedataset

gsample 20 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer20pc, replace) fig

clear

use basedataset

gsample 30 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer30pc, replace) fig

clear

use basedataset

gsample 40 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer40pc, replace) fig

clear

use basedataset

gsample 60 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer60pc, replace) fig

clear

use basedataset

gsample 70 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer70pc, replace) fig

clear

use basedataset

gsample 80 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer80pc, replace) fig

clear

use basedataset

gsample 90 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth investment investment realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(31) mspeperiod(15(1)30) nested keep(prereftrainingOECDinv2016Fetzer90pc, replace) fig

use prereftrainingOECDinv2016Fetzer50pc, clear

rename \_Y\_synthetic fifty\_pc

merge 1:m \_time using prereftrainingOECDinv2016Fetzer20pc

rename \_Y\_synthetic twenty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer30pc

rename \_Y\_synthetic thirty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer40pc

rename \_Y\_synthetic forty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer60pc

rename \_Y\_synthetic sixty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer70pc

rename \_Y\_synthetic seventy\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer80pc

rename \_Y\_synthetic eighty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer90pc

rename \_Y\_synthetic ninety\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDinv2016Fetzer

rename \_Y\_synthetic hundred\_pc

drop \_merge

gen average\_Y\_synthetic = (twenty\_pc + thirty\_pc + forty\_pc + fifty\_pc + sixty\_pc + seventy\_pc + eighty\_pc + ninety\_pc + hundred\_pc)/9

twoway (line \_Y\_treated \_time) (line average\_Y\_synthetic \_time)

gen UKloss = 100-((100 + \_Y\_treated) / (100 + average\_Y\_synthetic) \* 100)

graph save Graph prereftrainingOECDinv016Fetzeraverage, replace

save prereftrainingOECDinv2016Fetzeraverage, replace

**Goods trade**

**Import goods trade data, then:**

encode country, gen(ncountry)

egen dateid = group(date)

egen countryid = group(ncountry)

generate UK = (countryid == 22)

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer, replace) fig

graph save Graph prereftrainingOECDgt2016Fetzer, replace

save basedataset, replace

gsample 50 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer50pc, replace) fig

clear

use basedataset

gsample 20 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer20pc, replace) fig

clear

use basedataset

gsample 30 if UK==0, percent cluster(countryid) wor keep

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer30pc, replace) fig

clear

use basedataset

gsample 40 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer40pc, replace) fig

clear

use basedataset

gsample 60 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer60pc, replace) fig

clear

use basedataset

gsample 70 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer70pc, replace) fig

clear

use basedataset

gsample 80 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer80pc, replace) fig

clear

use basedataset

gsample 90 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth goodstrade goodstrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDgt2016Fetzer90pc, replace) fig

use prereftrainingOECDgt2016Fetzer50pc, clear

rename \_Y\_synthetic fifty\_pc

merge 1:m \_time using prereftrainingOECDgt2016Fetzer20pc

rename \_Y\_synthetic twenty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer30pc

rename \_Y\_synthetic thirty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer40pc

rename \_Y\_synthetic forty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer60pc

rename \_Y\_synthetic sixty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer70pc

rename \_Y\_synthetic seventy\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer80pc

rename \_Y\_synthetic eighty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer90pc

rename \_Y\_synthetic ninety\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDgt2016Fetzer

rename \_Y\_synthetic hundred\_pc

drop \_merge

gen average\_Y\_synthetic = (twenty\_pc + thirty\_pc + forty\_pc + fifty\_pc + sixty\_pc + seventy\_pc + eighty\_pc + ninety\_pc + hundred\_pc)/9

twoway (line \_Y\_treated \_time) (line average\_Y\_synthetic \_time)

gen UKloss = 100-((100 + \_Y\_treated) / (100 + average\_Y\_synthetic) \* 100)

graph save Graph prereftrainingOECDgt016Fetzeraverage, replace

save prereftrainingOECDgt2016Fetzeraverage, replace

**Services trade**

**Import services trade data, then:**

encode country, gen(ncountry)

egen dateid = group(date)

egen countryid = group(ncountry)

generate UK = (countryid == 22)

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer, replace) fig

graph save Graph prereftrainingOECDst2016Fetzer, replace

save basedataset, replace

gsample 50 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer50pc, replace) fig

clear

use basedataset

gsample 20 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer20pc, replace) fig

clear

use basedataset

gsample 30 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer30pc, replace) fig

clear

use basedataset

gsample 40 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer40pc, replace) fig

clear

use basedataset

gsample 60 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer60pc, replace) fig

clear

use basedataset

gsample 70 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer70pc, replace) fig

clear

use basedataset

gsample 80 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer80pc, replace) fig

clear

use basedataset

gsample 90 if UK==0, percent cluster(countryid) wor keep

tsset ncountry dateid

synth servicestrade servicestrade realgdp invratio schooling industry inflation openness realgdppercap, trunit(22) trperiod(49) mspeperiod(22(1)43) nested keep(prereftrainingOECDst2016Fetzer90pc, replace) fig

use prereftrainingOECDst2016Fetzer50pc, clear

rename \_Y\_synthetic fifty\_pc

merge 1:m \_time using prereftrainingOECDst2016Fetzer20pc

rename \_Y\_synthetic twenty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer30pc

rename \_Y\_synthetic thirty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer40pc

rename \_Y\_synthetic forty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer60pc

rename \_Y\_synthetic sixty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer70pc

rename \_Y\_synthetic seventy\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer80pc

rename \_Y\_synthetic eighty\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer90pc

rename \_Y\_synthetic ninety\_pc

drop \_merge

merge 1:m \_time using prereftrainingOECDst2016Fetzer

rename \_Y\_synthetic hundred\_pc

drop \_merge

gen average\_Y\_synthetic = (twenty\_pc + thirty\_pc + forty\_pc + fifty\_pc + sixty\_pc + seventy\_pc + eighty\_pc + ninety\_pc + hundred\_pc)/9

twoway (line \_Y\_treated \_time) (line average\_Y\_synthetic \_time)

gen UKloss = 100-((100 + \_Y\_treated) / (100 + average\_Y\_synthetic) \* 100)

graph save Graph prereftrainingOECDst016Fetzeraverage, replace

save prereftrainingOECDst2016Fetzeraverage, replace